

REGULATED AREAS #1 #5

VVC 000007728



Interoffice Communication

To J. A. De Bernardi
From P. L. Fetzer
Date December 18, 1979
Subject Deregulation of Area I - East End of Block I

Shown below are the monthly averages of the daily average of the fixed point monitors located in Regulated Area No. I. The data also shows the average value excluding sample point No.

	<u>All Sample Points</u>	<u>Excluding Sample Point #1</u>
March	1.20	1.03
April	0.96	0.83
May	1.05	0.95
June (5-days)	0.95	0.93
July	--	--
August	--	--
September	--	--
October	0.57	0.50
November	0.16	0.14

The data for the period March through June represents the values prior to correcting problems existing in the calibration procedures. The data for October and November represents the exposure data after the corrected standardization and calibration procedures were initiated.

The earlier data showed the VCM exposure to be very near 1.0 ppm within the regulated area. Thirty-three percent of the daily average values exceeded 1.0 ppm. The most current average results are much lower, at or below 0.5 ppm VCM, while twelve percent of the individual daily average values exceeded 1.0 ppm.

This reduction in the current average exposure values indicates the likelihood of the earlier calibration procedure produced data that was biased on the high side as would be expected based on the problem found during the calibration of the instrumentation. The sample was analyzed at a higher loop pressure than the standard thus causing a larger sample to be analyzed for each sample point.

The personnel dosimeter VCM exposure data for the outside operators working within Regulated Area No. I are shown below.

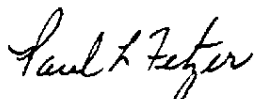
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1979 Personnel Exposure Data

<u>ppm VCM</u>	<u>Normal Duties</u>		<u>Turnaround Duties</u>	
	<u>Block I</u>	<u>Block II</u>	<u>Block I</u>	<u>Block II</u>
0-0.5	15	18	2	7
0.5-1.0	2	0	0	4
1.0-2.0	1	0	4	3
2.0-3.0	0	0	1	0
Over 5.0	0	0	4	0

This data shows the 8-hour exposure values are in agreement with the average exposure value with Regulated Area No. I. One individual of the forty-six tested throughout the year while performing normal duties exceeded 1 ppm. This amounts to a 2.0% overexposure rate.

In summary, the average values for the fixed point monitoring system analyses show the VCM exposure to be at or below 0.5 ppm. This exposure also agrees with the personnel dosimeter data for those employees working this area of the plant. It is recommended that the Regulated Area No. I be deregulated.



Paul L. Fetzer

PLF:lad
CC: GLF, WVH, HDG

VVC 000007730

G. A. DeBernardi

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12/17/79

Deregulations of Area No. 5 - EDC Tank Tops

The data developed by Jay Zimmer during the summer indicated that all tanks except T-453 could be deregulated based on the 8-hour test data. However since employee exposure occurred within a 15 minute time period the exposure data for this time period was developed. The earlier data summarized below showed that all tank tops except T-453 and T-402 were below the 5.0 ppm VCM 15-minute maximum exposure value.

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	<u>T-402</u>	<u>T-405</u>	<u>T-460</u>	<u>T-450</u>	<u>T-451</u>	<u>T-453</u>
ppm VCM	5.39	1.20	2.81	0.28	4.14	3.99

Tanks T-402 and T-453 were retested following mechanical check out and completion of any required maintenance work. Six fifteen minute testings of each tank were completed. The average value of the composite testings is 1.2 ppm and 0.5 ppm respectively for tanks T-402 and T-453.